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DDS&T-4003-66  
2 August 1966

MEMORANDUM FOR: Distribution

SUBJECT : Disposition of IBM System 360/30 [redacted]

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1. An IBM 360/30 Computer under rental by OCS has been used for the past several months [redacted] This computer is being used [redacted] to check out the programs and the hardware interface associated with the analog-to-digital converter (ANDI) they will deliver to OCS under contract [redacted]

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2. The ANDI will be delivered approximately 10 September 1966 and will be connected to an IBM 360 Computer already installed in the Computer Center. The computer at [redacted] will not be needed after that time. Unless an Agency requirement for subsequent use of this computer is identified, we will direct it to be released and returned.

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3. Your suggestions of possible follow-on use of this computer by the Agency at Headquarters or other sites are solicited. It should be noted that the OCS FY-67 budget only provides for the rental of this computer through August 1966. Attached is a short description of this machine which includes size, rental cost, and limitations.

[redacted]  
Deputy Director of Computer Services

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Attachment:  
Description of IBM 360/30

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**Distribution:**

Director of ELINT  
Director of Research and Development  
Director of Scientific Intelligence  
Director of Special Activities  
Director of Special Projects  
Director of Foreign Missile and Space  
Analysis Center

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[REDACTED] SA/DD/S&T

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[REDACTED] SA/DD/S&T

DD/OCS/DD/S&T

[REDACTED] (2Aug66)

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ATTACHMENT

Description of IBM 360/30

STATINTL

Hardware

1 Central Processing Unit

1.5 micro. sec. basic cycle time

65,000 bytes core storage

Features: decimal arithmetic, Interval Timer,  
two selector channels, storage protection

1 Typewriter Keyboard Terminal

1 Line Printer (600 lines per minute)

1 Disc Storage (5 million bytes capacity)

4 Magnetic Tape Unit (90,000 bytes/sec.)

1 Card Reader/Punch

MONTHLY SYSTEM RENTAL  
(176 Hours)

STATINTL

Software

The above IBM 360/30 with 65 K bytes of core cannot be expanded, and the core limitation does present some limitations on software:

a. Operating System (OS)

- 2 -

(1) FORTRAN-E is available. This is a subset of FORTRAN-H and of IBM 7090 FORTRAN and thus there are serious limitations in running FORTRAN programs written for another machine. FORTRAN-E is satisfactory for simple to medium complex programming. However, object programs are necessarily quite limited in size.

(2) COBOL-E. Runs well and is adequate.

(3) ALC-E. Runs but is slow.

(4) PL/1-F. Runs well.

b. Basic Operating System (BOS)

The above languages are available under BOS, but some incompatibility exists with OS. However, the Mod 30 is quite adequate using BOS and will furnish a versatile, but somewhat slow in size and speed, capability.